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EVALUASI POTENSI PELESTARIAN TUNAS HASIL KULTUR IN VITRO DARI TANAMAN OBAT CEPLUKAN (*Physalis angulata*,L.)

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ABSTRACT

A tissue culture and plant generation for the ceplukan, *Physalis angulata*, L has been developed. Callus were efficiently induced on Murashige and Skoog (MS) medium supplemented with 0,1 ppm indole-3-acetic acid (IAA) and variation of 1, 2, 3, 4, and 5 ppm benzyladenine (BA). The regenerable callus differentiated into shoots. Phytochemical containing of the shoots were detected and compared with the origin plant using Thin Layer Chromatography (TLC). Flavonoid was showed by bright blue spot under UV 366 nm and became yellow after smoked by NH₃ with HRf 43 and 69. Saponin was showed by yellow spot with HRf 18 and purple spot with HRf 45 after sprayed by anisaldehyde-sulfuric acid. HRf of the shoots from culture and origin plant were the same, showed that shoots contains the same phytochemical as the origin plant.

Keyword: shoots, tissue culture, restoration, flavonoid, saponin